

COSC 480 – Robotics

Project 1

Purpose: For this first project, you and your team will be familiarizing yourself with your robot and the tools at your disposal to solve a simple problem with a certain degree of subtlety.

Task: Construct a line following robot. This robot should follow a simple blue line, complete with 45 and 90 degree turns around a track. The blue line will be 1” wide and the track length will not be given ahead of time.

Things to consider:

- * What happens if there's an obstruction on the line?
- * What happens if the lines cross?
- * What happens if there is more than one line (different colors)?
- * What happens if the robot is moved off the line?

Your robot will be tested on its ability to complete the course given these conditions. It will be timed from course start to course finish and compared to the other teams in the class.

You can use any of the sensors and LEGOs in the kit, plus any extra LEGOs you may need. If you need extra LEGOs, you should request them from Alan.

DUE: February 15th to be demonstrated in class.